



CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)



An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No: CACE/BBMP/AEE/YNK/QC/W-01/2021-22

Test Report

Project Name Construction of Compound Wall and Improvements to Yelahanka Govt High School Premises at Yelahanka Old Town in Ward No-01

Client The Asst Executive Engineer, Yelahanka Sub Division, BBMP

Mix Type PCC(1:4:8)

Contractor Sri.G.Venkate Gowda

Test Method IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.

Material Cement

Sample No 1

Sample Collected 3-May-2021

Date 3-May-2021

Test Date 5-May-2021

Consistency test

Consistency test of Cement A.E.-1	Trail No	Weight of Cement	Percentage of water added (%)	Weight of Water (gm)	Initial Reading of Plunger (mm)	Difference (mm)
	1	400	28.5	114	40	19
	2	400	28.0	112	40	18.5
	3	400	29.0	116	40	10
	4	400	28.0	112	40	6.5
	5	400	30.0	120	40	5

Results: Standard Consistency of Cement: 30.50%

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Test Report Gradation test

Project Name Construction of Compound Wall and Improvements to Yelahanka Govt High School Premises at Yelahanka Old Town in Ward No-01
Client The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Contractor Sri.G.Venkate Gowda
Test Method IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material Coarse aggregates (40mm)
Sample No 1
Sample Collected Date 3-May-2021
Test Date 5-May-2021
Weight of Sample: 4000 gms

Sl. No	I.S. Sieve size	Weight Retained (gm)	Percentage of weight Retained (%)	Cumulative Percentage of weight retained (%)	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per MORT&H	
1	63.00	0	-	-	-	-	
1	40.00	0	0	0	100	95-100	
1	20.00	1205	30.125	30.125	69.875	30-70	
1	12.50	-	-	-	-	-	
1	10.00	2650	66.25	66.25	33.75	10-35	
1	4.75	1210	30.25	96.5	3.5	0-5	

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Test Report Solid block

Project Name Construction of Compound Wall and Improvements to Yelahanka Govt High School Premises at Yelahanka Old Town in Ward No-01

Client The Asst Executive Engineer, Yelahanka Sub Division, BBMP

Job No Job No: CACE/BBMP/AEE/YNK/QC/W-01/2021-22

Contractor Sri.G.Venkate Gowda

Location Bay

Material Solid block

Sample No 1

Date 27-Jul-2021

SL.NO	Failure Load in KN	CHARACTERISTIC COMPRESSIVE STRENGTH, fck, in, N/Sq.mm	AVG CHARACTERISTIC COMPRESSIVE STRENGTH, fck in N/Sq.mm	REMARKS
1	471	5.85	5.87	
2	468	5.8		
3	475	5.95		

Result: Compressive strength of solid block is 5.87N/mm²

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No: CACE/BBMP/AEE/YNKA/1/2021 As Per ISO/IEC 17025:2017 Laboratory

Test Report Gradation test

Project Name

Client
Contractor

Test Method

Location
Material
Sample No

Sample Collected Date 3-May-2021

Test Date

Construction of Compound Wall and Improvements to Yelahanka Govt High School Premises at Yelahanka Old Town in Ward No-01

The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Sri.G.Venkate Gowda

IS : 2116-1980

At site

Fine Aggregates, For Brick/Block Work

1

5-May-2021

Weight of Sample(gram): 200

Sl No.	IS Sieve Size	Weight retained	% retained	% Cumulative	Cumulative % of Passing		Remarks
					% Passing	Gradation limits	
1	4.75 mm	0	0.00	0.00	100.00	100	
2	2.36 mm	12	6.00	6.00	94.00	90-100	
3	1.18 mm	18	9.00	15.00	85.00	70-100	
4	600 μ	25	12.50	27.50	72.50	40-100	
5	300 μ	95	47.50	75.00	25.00	5-70	
6	150 μ	24	12.00	87.00	13.00	0-15	

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